\_\_\_\_\_\_

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2009; month=6; day=12; hr=8; min=36; sec=8; ms=108; ]

\_\_\_\_\_\_

## Validated By CRFValidator v 1.0.3

Application No: 10674159 Version No: 3.0

Input Set:

Output Set:

**Started:** 2009-06-01 15:24:37.195

**Finished:** 2009-06-01 15:24:40.315

**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 120 ms

Total Warnings: 248

Total Errors: 0

No. of SeqIDs Defined: 272

Actual SeqID Count: 272

Error code		Error Description									
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(5)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(20)

Input Set:

Output Set:

**Started:** 2009-06-01 15:24:37.195

Finished: 2009-06-01 15:24:40.315

**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 120 ms

Total Warnings: 248

Total Errors: 0

No. of SeqIDs Defined: 272

Actual SeqID Count: 272

Error code Error Description

This error has occured more than 20 times, will not be displayed

## SEQUENCE LISTING

<110>	CHEN, JIANZHU EISEN, HERMAN N. GE, QING	
<120>	INFLUENZA THERAPEUTIC	
<130>	0492611-0506	
<140>	10674159	
<141>	2003-09-29	
<150>	PCT/US2003/030508	
<151>	2003-09-29	
<150>	PCT/US2003/030502	
	2003-09-29	
<150>	60/446,377	
<151>	2003-02-10	
<150>	60/414,457	
<151>	2002-09-28	
<160>	272	
<170>	PatentIn version 3.5	
<210>	1	
<211>	21	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	1	
aatcaa	agaag tacacatcag g	21
<210>	2	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>		
aagtad	cacat caggaagaca g	21
<210>		
<211>	21	

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 3
aatggatgat ggcaatgaaa t
                                                                        21
<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 4
                                                                        21
aattacagca gacaagagga t
<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 5
aacttactca tcgtcaatga t
                                                                        21
<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 6
                                                                        21
aatgtgaggg gatcaggaat g
<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 7
aagcatcaat gaactgagca a
                                                                        21
```

```
<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 8
aaggagacgt ggtgttggta a
                                                                        21
<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 9
aacgggactc tagcatactt a
                                                                        21
<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 10
aagaattcgg atggccatca a
                                                                        21
<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 11
aagcaggcaa accatttgaa t
                                                                        21
<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 12
```

<210>	13	
<211>		
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	13	
aatcco	gacct tacttttctt a	21
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<b></b>		
<220>	Description of Autificial General Goothatic alimentals	
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	14	
	ccagc acaaaatgct a	21
aagege	souge deddadeget d	
<210>	15	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	15	
aacago	gatac accatggata c	21
<210>		
<211>		
<212>		
\Z13/	Artificial Sequence	
<220>		
	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	16	
aatgtt	ctca aacaaaatgg c	21
-		
<210>	17	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	

aaccatttga atggatgtca a

<220>

21

```
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 17
aatgatgatg ggcatgttca a
                                                                        21
<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 18
aagatctgtt ccaccattga a
                                                                        21
<210> 19
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 19
                                                                        21
aagcaggtac tgatccaaaa t
<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 20
aatggaagat tttgtgcgac a
                                                                        21
<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 21
ttgtgcgaca atgcttcaat c
                                                                        21
<210> 22
<211> 21
```

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 22
aatgcttcaa tccgatgatt g
                                                                        21
<210> 23
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 23
                                                                        21
aatccgatga ttgtcgagct t
<210> 24
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 24
aacaaatttg cagcaatatg c
                                                                        21
<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 25
                                                                        21
aagagacaat tgaagaaagg t
<210> 26
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 26
tagagcctat gtggatggat t
                                                                        21
```

```
<210> 27
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 27
aacggctaca ttgagggcaa g
                                                                        21
<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 28
                                                                        21
aaccacacga aaagggaata a
<210> 29
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 29
aacctgggac ctttgatctt g
                                                                        21
<210> 30
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 30
                                                                        21
aagcaattga ggagtgcctg a
<210> 31
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 31
```

<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	32	
aatgct	tett ggtteaacte e	21
<210>	33	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>		
ttggag	gccat tgccggtttt a	21
<210>	2.4	
<211>		
<211>		
	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	34	
ggagcc	attg ccggttttat t	21
<210>	35	
<211>		
<212>		
<213>	Artificial Sequence	
1000		
<220>	Description of Autificial Common Combines of Incompletely	
<2Z3>	Description of Artificial Sequence: Synthetic oligonucleotide	
<400>	35	
	gactt atgattatcc c	21
999	,	_ <b>_</b>
<210>	36	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	

21

aatgatccct gggttttgct t

```
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 36
aatcactcac tgagtgacat c
                                                                        21
<210> 37
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 37
aatcatggcg tcccaaggca c
                                                                        21
<210> 38
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 38
                                                                        21
aatagagaga atggtgctct c
<210> 39
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 39
aataaggcga atctggcgcc a
                                                                        21
<210> 40
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 40
aaggcgaatc tggcgccaag c
                                                                        21
<210> 41
<211> 21
```

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 41
                                                                        21
aatgtgcaac attctcaaag g
<210> 42
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 42
                                                                        21
aatgaaggat cttatttctt c
<210> 43
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 43
aaggatetta tttettegga g
                                                                        21
<210> 44
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 44
                                                                        21
aatgcagagg agtacgacaa t
<210> 45
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 45
aatgaatcca aatcagaaaa t
                                                                        21
```

```
<210> 46
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 46
gaggacacaa gagtctgaat g
                                                                        21
<210> 47
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 47
gaggaatgtt cctgttaccc t
                                                                        21
<210> 48
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 48
                                                                        21
gtgtgtgcag agacaattgg c
<210> 49
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 49
                                                                        21
aatggctaaa gacaagacca a
<210> 50
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 50
```

<210 E1	
<210> 51	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
.000	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 51	0.4
acgeteaceg tgeecagtga g	21
(210) 52	
<210> 52	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 52	
actgcagcgt agacgctttg t	21
<210> 53	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 53	
actcagttat tctgctggtg c	21
<210> 54	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
,000°	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
Z100> 54	
<400> 54	21
agttattctg ctggtgcact t	21
<210> 55	
<211> 21	
<212> DNA	
<213> Artificial Sequence	

aatcctgtca cctctgacta a

<220>

21

```
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 55
aacagattgc tgactcccag c
                                                                        21
<210> 56
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 56
aaggctatgg agcaaatggc t
                                                                        21
<210> 57
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 57
                                                                        21
aatggctgga tcgagtgagc a
<210> 58
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 58
actcatccta gctccagtgc t
                                                                        21
<210> 59
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 59
aatttgcagg cctatcagaa a
                                                                        21
<210> 60
<211> 21
```

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 60
attgtggatt cttgatcgtc t
                                                                        21
<210> 61
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 61
                                                                        21
aagaatatcg aaaggaacag c
<210> 62
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 62
attttgtcag catagagctg g
                                                                        21
<210> 63
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 63
aagaactagg tgatgcccca t
                                                                        21
<210> 64
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 64
aactaggtga tgccccattc c
                                                                        21
```

```
<210> 65
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 65
atcggcttcg ccgagatcag a
                                                                        21
<210> 66
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 66
gccgagatca gaaatcccta a
                                                                        21
<210> 67
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 67
ggagtcctca tcggaggact t
                                                                        21
<210> 68
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 68
aatgataaca cagttcgagt c
                                                                        21
<210> 69
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
```

```
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 69
ggagacgugg uguugguaat t
                                                                        21
<210> 70
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 70
uuaccaacac cacgucucct t
                                                                        21
<210> 71
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 71
                                                                        21
cgggacucua gcauacuuat t
<210> 72
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 72
uaaguaugcu agagucccgt t
                                                                        21
<210> 73
```

<211> 21

```
<212> DNA
<213> Artificial Sequence
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 73
                                                                       21
gcaggcaaac cauuugaaut t
<210> 74
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 74
                                                                       21
auucaaaugg uuugccugct t
<210> 75
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
```